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load balance in a packet

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Patents

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World-wide-web server with delayed resource-binding for resource-based **load** balancing on a ...

US Pat. 5774660 - Filed Aug 5, 1996 - Resonate, Inc.

The computer-implemented method of claim 7 wherein the **load** balancer is a program ... of the **load** balancer as the destination IP address for the FIN **packet**; ...

System for on-line service in which gateway computer uses service map which includes loading ...

US Pat. 5774668 - Filed Jun 7, 1995 - Microsoft Corporation

The message layer 1000 uses the **packet** layer 1010 to provide a reliable byte ... (if any) to a new server 120 (using the **load** balancing procedure of FIG. ...

Load balancing for **packet** switching nodes

US Pat. 4621359 - Filed Oct 18, 1984 - Hughes Aircraft Company

This 5 **load** balancing means coupled to said **packet** switch- circuit is identical to ... In particular, the to redistribute and **balance** the output port **load**, ...

Dynamic **load** balancing of a network of client and server computers

US Pat. 6185601 - Filed Apr 15, 1998 - Hewlett-Packard Company

... independently by a file server or **load**- **balance** monitor server or process. ... The utilization server 104A then sends a redirect **packet** 700, including a ...

Load balancing in link aggregation and trunking

US Pat. 6363077 - Filed Feb 12, 1999 - Broadcom Corporation

1) implemented destination address of the second **packet** indicates the high as a **packet** switching fabric including means for **load** speed server 3. ...

Computer data **packet** switching and **load** balancing system using a general-purpose multiprocessor ...

US Pat. 6272522 - Filed Nov 17, 1998 - Sun Microsystems, Incorporated

The **load** distribution configuration data is stored in the main memory for access by the data **packet** switching processors. The switching processors route ...

Client-side resource-based **load**-balancing with delayed-resource-binding using TCP state ...

US Pat. 6182139 - Filed Jun 23, 1998 - Resonate Inc.

The first server to respond is likely the server with the lightest **load**, ... Multiple copies of the SYN **packet** are generated, and the destination IP address ...

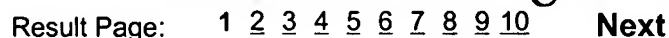
Client-based dynamic switching of streaming servers for fault-tolerance and **load** balancing

US Pat. 6195680 - Filed Jul 23, 1998 - International Business Machines Corporation

... optionally select the SS 2.2 from a plurality of sss in the selected set 2.6 using conventional go **load**-balancing techniques. ... A **packet** refers to a ...

to a workstation provides inbound dynamic **load** balancing and significantly ...

plurality of network interfaces. The control processor receives raw load status ...



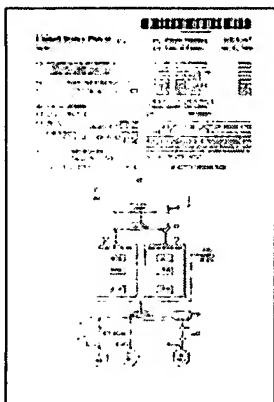
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Patent summary

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Abstract

In a communication network where a communication load imbalance is detected, the overburdened channels in the network are labeled congested to deter new-coming terminals from accessing such channels. In addition, messages are sent to selected terminals on the congested channels, commanding them to relocate from such channels to other uncongested channels. As a result, the load imbalance in the network is effectively reduced.

Patent number: 6014567**Filing date:** Feb 24, 1997**Issue date:** Jan 11, 2000**Inventor:** Kenneth Carl
Budka**Assignee:** Lucent
Technologies Inc.**Primary Examiner:** Nay
Maung

Current U.S.

Classification

455/453; 455/422;
455/466

International

Classification

H04Q 720

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Citations

Patent Number	Title	Issue date
<u>4670899</u>	Load balancing for cellular radiotelephone	Jun 2, 1987

	system	
<u>5241685</u>	Load sharing control for a mobile cellular radio system	Aug 31, 1993
<u>5404392</u>	Digital Cellular Overlay Network (DCON)	Apr 4, 1995
<u>5666356</u>	Method and apparatus for controlling calls in a code division multiple access system	Sep 9, 1997
<u>5754959</u>	Mobile communication system with a load balancing feature	May 19, 1998
<u>5794140</u>	Method and apparatus for offering subscribers access to unused communications capacity in a cellular communications system	Aug 11, 1998
<u>5796722</u>	Method and apparatus for dynamic load balancing using handoff	Aug 18, 1998
<u>5799154</u>	System and method for the remote monitoring of wireless packet data networks	Aug 25, 1998
<u>5805996</u>	Base station with antenna coverage directed into neighboring cells based on traffic load	Sep 8, 1998

Referenced by

Patent Number	Title	Issue date
<u>6128500</u>	Method and system to optimize capacity	Oct 3, 2000

	of a CDMA cellular communication system	
<u>6266531</u>	System and method for adaptive thresholds for cell load sharing	Jul 24, 2001
<u>6314293</u>	Probabilistic use of wireless reserve channels for admission control	Nov 6, 2001
<u>6366780</u>	Real-time spectrum usage data collection in a wireless communication system	Apr 2, 2002
<u>6385449</u>	System and method used in a mobile telecommunications network for load balancing ongoing calls between different base station controllers	May 7, 2002
<u>6453360</u>	High performance network interface	Sep 17, 2002
<u>6466648</u>	Repetitive call control method, switch using the method, and recording medium storing repetitive call control program	Oct 15, 2002
<u>6577871</u>	Technique for effectively managing processing loads in a communications arrangement	Jun 10, 2003
<u>6604137</u>	System and method for verification of remote spares in a communications network when a network outage occurs	Aug 5, 2003
<u>6704286</u>	Modeling of hybrid time-code division multiple access communication systems	Mar 9, 2004

<u>6728237</u>	Arrangement, a system and a method relating to a packet data communication	Apr 27, 2004
<u>6731739</u>	Balancing loads on telecommunications links	May 4, 2004
<u>6925095</u>	Method and apparatus for communication	Aug 2, 2005
<u>6925059</u>	Method and apparatus for distributing traffic load in a wireless packet data network	Aug 2, 2005
<u>6973579</u>	Generation of user equipment identification specific scrambling code for the high speed shared control channel	Dec 6, 2005
<u>7133366</u>	Modeling of hybrid time-code division multiple access communication systems	Nov 7, 2006
<u>7136675</u>	Method of distributing communications within a cell of a radio-communication network, and a corresponding device and base station	Nov 14, 2006
<u>7158635</u>	Generation of user equipment identification specific scrambling code for the high speed shared control channel	Jan 2, 2007

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Patents

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System for on-line service in which gateway computer uses service map which includes loading ...

US Pat. 5774668 - Filed Jun 7, 1995 - Microsoft Corporation

Another **load balancing** method selects application servers such that the probability of ... 11A and 11B illustrate a preferred **packet** format used for data ...

Data-transfer routing management for **packet-oriented digital communication system** including ATM ...

US Pat. 5440547 - Filed Jan 5, 1994 - Kabushiki Kaisha Toshiba

If 35 **communication** extends across a plurality of ATM- lans, entry ... In order to perform better **load balancing**, each input port and each output port are ...

Inband directed routing for **load balancing** and **load distribution** in a data **communication network**

US Pat. 5495426 - Filed Jan 26, 1994

2 shows a **packet** with a flag field header and a tune sequence in which packets are ... in realtime for the purpose of **load balancing** and **load distribution**. ...

Load balancing for **packet switching nodes**

US Pat. 4621359 - Filed Oct 18, 1984 - Hughes Aircraft Company

The present invention a **load balancing** circuit coupled to the **packet** switching node which monitors the output port addresses of the applied data packets and ...

Method of redirecting a client service session to a second application server without ...

US Pat. 5951694 - Filed Feb 3, 1997 - Microsoft Corporation

Load balancing is preferably performed according to the specific dynamics of the ... 11A and 11B illustrate a preferred **packet** format used for data ...

Load balancing in link aggregation and trunking

US Pat. 6363077 - Filed Feb 12, 1999 - Broadcom Corporation

A communications network switch as recited in claim 1 wherein said **load balancing** means is responsive to said source address value of said **packet**, ...

Network server having dynamic **load balancing** of messages in both inbound and outbound directions

US Pat. 5864535 - Filed Sep 18, 1996 - International Business Machines Corporation

Summarizing, a **communication** network has been described which has full-duplex traffic **load balancing** in a 55 workstation-server environment. ...

Technique for **balancing a communication load** in a **communication network**

US Pat. 6014567 - Filed Feb 24, 1997 - Lucent Technologies Inc.

A prior art scheme for **balancing the communication load** in a CDPD network has been ... Illustratively, Cellular Digital **Packet Data** (CDPD) network 103 in ...

Load balancing switch protocols

US Pat. 6580715 - Filed Jan 11, 1999 - Hewlett-Packard Development Company, L.P.

Such distribution, often referred to as **load balancing**, further enhances the ability... Underutilized paths may be used to offload **packet communication** on ...**Apparatus and method for providing decoupling of data exchange details for providing high ...**

US Pat. 5257369 - Filed Oct 22, 1990

There may also be a protocol engine for **communication** with high speed data ...The TCP transport protocol includes these message disassembly and **packet** ...

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